



## United States Department of the Interior

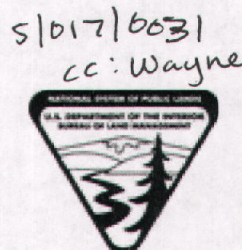
### BUREAU OF LAND MANAGEMENT

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<http://www.blm.gov/ut/st/en.html>



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July 8, 2013

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Certified Mail No.

Ms. Sandra D. Christensen

Paralegal

Bromide Mining

100 East 20 North, PO Box 121

Hanksville, UT 84734-0121

Subject: Bromide Mine Contaminated Gravel Cleanup

Bureau of Land Management, Henry Mountains Field Station (BLM) is in receipt of and has reviewed your letter dated 7/2/2013 subject *Bromide Mine Contaminated Gravel*. On 5/21/2013 BLM and Utah Division of Oil, Gas and Mining (UDOGM) conducted a joint inspection of your Bromide Basin Mine operation and witnessed a leaking barrel labeled "Waste Oil". As a result of observations made during this inspection Bromide Mining was directed to perform an environmental response including securing the waste barrel, excavating all affected soils and transporting generated soils to a disposal facility licensed to accept the waste stream. BLM witnessed collection of three confirmation soil samples from the excavated area on 6/11/2013. Samples were transported to an analytical laboratory certified in the State of Utah to conduct requested analyses. Analysis was performed for total metals and diesel range petroleum hydrocarbons (TPH-DRO). Diesel range hydrocarbons were detected at concentrations above reporting limits in one soil sample, sample #3, at 27.6 mg/kg (ppm). Metals detected at or above reporting limits include:

Arsenic

Barium

Chromium

Cobalt

Copper

Lead

Mercury

Molybdenum

Vanadium



Comparison of laboratory analytical results with EPA Region 8 Soil Screening Levels (SSL's) show detected concentrations of diesel (as naphtha) in confirmation soil samples to be below the recommended EPA SSL for Residential Soil of 230 mg/kg (ppm). Concentrations of metals detected in confirmation soil samples appear to be within background ranges expected in natural soils or surficial materials of the conterminous United States <sup>(1,2)</sup>.

Based on analytical results BLM considers this environmental response to be complete, the response site adequately remediated and no further action is required in regards to this matter.

Sincerely;

Sue Fivecoat  
Assistant Field Manager

Cc:  
Wayne Western, UDOGM  
File

References:

1. [http://www.hazardouswaste.utah.gov/HWF\\_Section/Docs/DCD/Group\\_known/Background\\_Concentrations.pdf](http://www.hazardouswaste.utah.gov/HWF_Section/Docs/DCD/Group_known/Background_Concentrations.pdf)
2. Shacklette, H.D., USGS Professional Paper 1270, 1984